

Lubrication



Overview

We offer a full complement of lubricants including our low vapour pressure greases for clean room and vacuum application. The TriGel line is specifically formulated to offer a lubrication solution for a wide range of linear motion applications. Choose the appropriate gel for your requirements and get the utmost performance out of your Danaher Motion products.

Lubrication Selection Chart for Ball & Lead Screw Assemblies

Thomson Neff	TriGel-300S	TriGel-450R	TriGel-600SM	TriGel-1200SC	TriGel-1800RC
Application	Lead Screws Supernuts, Plastic Nuts	Ball Screws, Linear Bearings	Bronze Nuts	Lead Screws, Plastic Nuts, Clean Room, High Vacuum	Ball Screws, Linear Bearings, Bronze Nuts, Clean Room, Vacuum
Maximum Temperature	200° C (392°F)	125°C (257°F)	125°C (257°F)	250°C (482°F)	125°C (257°F)
Mechanism Materials	Plastic on Plastic or Metal	Metal on Metal	Metal on Metal Bronze on Steel	Plastic or Metals, Combination	Metal on Metal
Mechanical Load	Light	Moderate	Moderate to Heavy	Light to Moderate	Moderate
Very Low Torque Variation over Temperature	Yes	—	—	Yes	—
Very Low Starting Torque	Yes	Yes	—	Yes	Yes
Compatibility with Reactive Chemicals	Not recommended w/o OEM testing	Not recommended w/o OEM testing	Not recommended w/o OEM testing	Usually OK	Not recommended w/o OEM testing
Compatibility with Plastics and Elastomers	May cause silicon rubber seals to swell	May cause EPDM seals to swell	May cause EPDM seals to swell	Usually OK	May cause EPDM seals to swell
Clean Room Use	Not recommended	Not recommended	Not recommended	Usually OK	Usually OK
High Vacuum Use	Not recommended	Not recommended	Not recommended	Usually OK	Usually OK
Vapor Pressure (25°C)	Varies with lot	Varies with lot	Varies with lot	1 x 10 ⁻⁵ Pa	0,5 x 10 ⁻⁵ Pa
Packaging 10cc Syringe .45kg Tube	TriGel-300S TriGel-300S-1	7832867/TriGel-450R 7832868/TriGel-450R-1	.1kg tube/TriGel-600SM	TriGel-1200SC NA	7832869/TriGel-1800RC

* Maximum temperature for continuous exposure. Higher surge temperatures may be permissible but should be validated in the actual end use by the OEM.
Low temperature limits are -15°C or lower. Consult Danaher Motion for specifics.